OIPE
FEB 13 2004
JC58
PATENT & TRADEMARK OFFICE

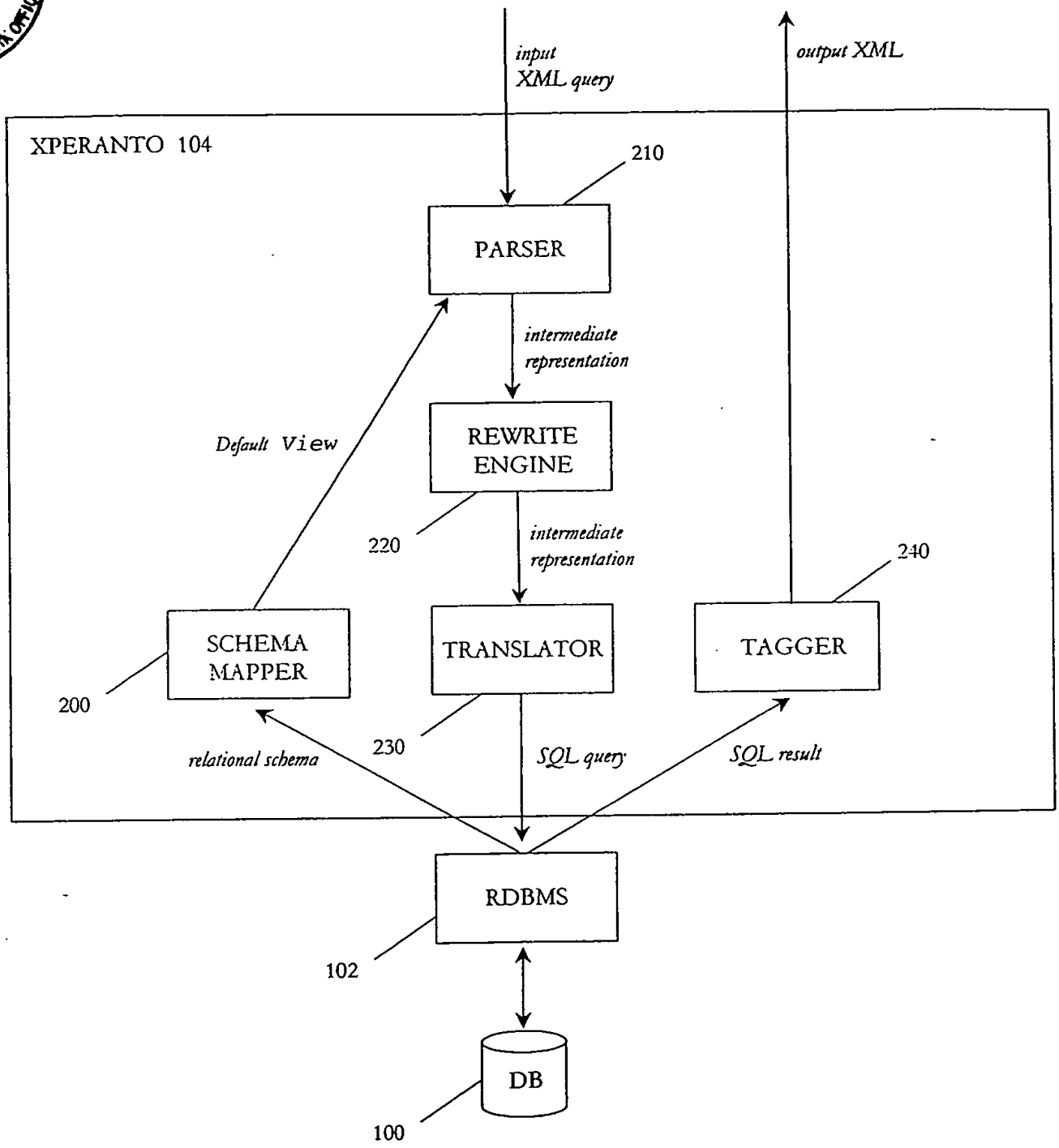

FIG. 2

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DEPT TABLE 300

DNO	NAME	SIZE
1	Finance	100
2	Marketing	200
3	Sales	50
...		

EMP TABLE 310

DNO	ENO	NAME	AGE
1	1	J. Skolem	50
2	2	L. Hubbard	33
...			

Default XML View of the DEPT Table 320

```
<DEPT>
  <ROW>
    <DNO> 1 </DNO> <NAME> Finance </NAME> <SIZE> 100 </SIZE>
  </ROW>
  <ROW>
    <DNO> 2 </DNO> <NAME> Marketing </NAME> <SIZE> 200 </SIZE>
  </ROW>
  <ROW>
    <DNO> 3 </DNO> <NAME> Sales </NAME> <SIZE> 50 </SIZE>
  </ROW>
  ...
</DEPT>
```

Default XML View of the EMP Table 330

```
<EMP>
  <ROW>
    <DNO> 1 </DNO> <ENO> 1 </ENO> <NAME> J. Skolem </NAME> <AGE> 50 </AGE>
  </ROW>
  <ROW>
    <DNO> 2 </DNO> <ENO> 2 </ENO> <NAME> L. Hubbard </NAME> <AGE> 33 </AGE>
  </ROW>
  ...
</EMP>
```

FIG. 3

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Intermediate Representation for the Default View of the DEPT Table

Output of Each Operation

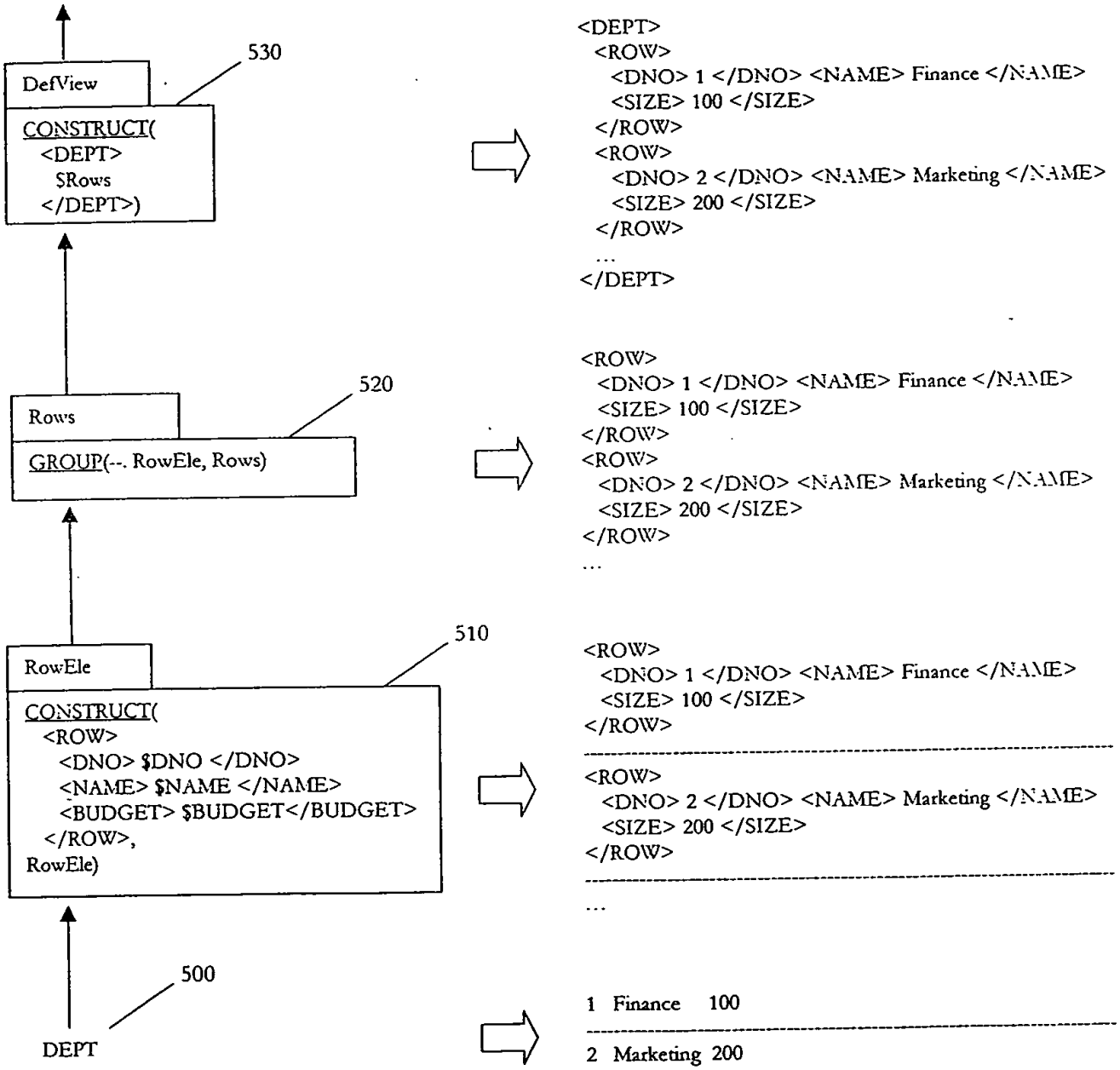

FIG. 5